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1	156	360/324.2.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/02/08 13:20
2	3	360/324.2.ccls. and "metal oxide layer"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/02/08 15:24
3	1	"5390061".PN.	USPAT	2003/02/08 12:49
4	11	("2683856" "3813692" "4103315" "4825325" "4894741" "4896235" "4940511" "5014147" "5134533" "5159513" "5206590").PN.	USPAT	2003/02/08 12:50
5	33	360/324.2.ccls. and "oxide layer"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/02/08 13:08
6	14	("3972035" "5390061" "5416353" "5629922" "5636093" "5650958" "5668688" "5691865" "5695864" "5712612" "5726837" "5729410" "5747859" "5764567").PN.	USPAT	2003/02/08 13:16
7	119	360/324.2.ccls. and "oxide"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/02/08 14:14
8	17	("5390061" "5636093" "5726837" "5729410" "5859753" "5966012" "5986858" "6011674" "6061210" "6072382" "6078484" "6097579" "6124711" "6127045" "6178074" "6185079" "6295718").PN.	USPAT	2003/02/08 13:45
9	10	360/324.ccls. and ("oxide" and "tunnel")	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/02/08 14:25
10	18	360/324.1.ccls. and ("oxide" and "tunnel")	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/02/08 14:30
11	13	360/324.11.ccls. and ("oxide" and "tunnel")	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/02/08 14:54
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13	2	5729410.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/02/08 14:54
14	2	5390061.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/02/08 14:57
15	43	360/\$.ccls. and ("metal oxide" and "tunnel")	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/02/08 15:04

16	3251	"metal oxide" and "tunnel"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/02/08 15:27
17	218	("metal oxide" and "tunnel") and "tunnel junction"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/02/08 15:05
18	18	360/324.2.ccls. and "metal oxide"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/02/08 15:24
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1 A new nano-scale transistor using metal/insulator/metal tunnel junction

Fujimaru, K.; Sasajima, R.; Matsumura, H.;

Device Research Conference Digest, 1998.

56th Annual , 22-24 Jun 1998

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[\[Abstract\]](#) [\[PDF Full-Text \(332 KB\)\]](#) **IEEE CNF**

2 Focused ion beam process for a formation of metal/insulator/metal double tunnel junctions

Nakayama, M.; Yanagisawa, J.; Wakaya, F.; Gamo, K.;

Microprocesses and Nanotechnology

Conference, 1999. Digest of Papers.

Microprocesses and Nanotechnology '99.

1999 International , 1999

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[\[Abstract\]](#) [\[PDF Full-Text \(272 KB\)\]](#) **IEEE
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**3 Device applications of reactive ion
beam sputter deposited
superconducting thin films**

Hebard, A.; Eick, R.;

Magnetics, IEEE Transactions on , Volume:
19 Issue: 3 , May 1983

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1 The optimum oxidation state of AlO_x magnetic tunnel junctions

Gillies, M.F.; Oepts, W.; Kuiper, A.E.T.; Coehoorn, R.; Tamminga, Y.; Snijders, J.H.M.; Bik, W.M.A.;

Magnetics, IEEE Transactions on , Volume:

35 Issue: 5 , Sep 1999

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2 In-situ characterization of oxide growth for fabricating spin-dependent tunnel junctions

Wee, A.T.A.; Wang, S.X.; Kyusik Sin;
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35 Issue: 5 , Sep 1999
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**3 Low resistance spin-dependent
tunneling junctions with naturally
oxidized tunneling barrier**
*Sin, K.; Mao, M.; Chien, C.; Funada, S.;
Miloslavsky, L.; Tong, H.-C.; Gupta, S.;*
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36 Issue: 5 , Sep 2000
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[\[Abstract\]](#) [\[PDF Full-Text \(72 KB\)\]](#) **IEEE**
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**4 Tunnel barrier properties of stressed
ferromagnetic tunnel junctions**
*Das, J.; Degraeve, R.; Boeve, H.; Lagae, L.;
Groeseneken, G.; Borghs, G.; de Broek, J.;*
Electronics Letters , Volume: 37 Issue: 6 ,
Mar 2001
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5 Thin film superconductive devices
Moore, D.F.;
High Temperature Superconductors in
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1988
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**6 Fabrication of single electron memory
on atomically flat Al_2O_3
substrate made by AFM nano-oxidation
process**

*Matsumoto, K.; Gotoh, Y.; Shirakashi, J.;
Maeda, T.; Harris, J.S.;*
Electron Devices Meeting, 1997. Technical
Digest., International , 7-10 Dec 1997
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**7 Room temperature Nb/Nb
oxide-based single-electron transistors**

*Shirakashi, J.-I.; Matsumoto, K.; Miura, N.;
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Digest., International , 7-10 Dec 1997
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**8 Nb/Nb oxide/Pb-alloy Josephson
tunnel junctions**

Raider, S.; Drake, R.;
Magnetics, IEEE Transactions on , Volume:
17 Issue: 1 , Jan 1981
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9 Characterization of Nb/Nb oxide structures in Josephson tunnel junctions

Raider, S.; Johnson, R.; Kuan, T.; Drake, R.; Pollak, R.;
Magnetics, IEEE Transactions on, Volume: 19 Issue: 3, May 1983
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10 Characterization of different types of Nb-AlO_x based Josephson tunnel junctions

Adelerhof, D.J.; Houwman, E.P.; Fransen, P.B.M.; Veldhuis, D.; Flokstra, J.; Rogalla, H.;
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11 Effect of growth conditions on the electrical properties of Nb/Al-oxide/Nb tunnel junctions

Mallison, W.H.; Miller, R.E.; Kleinsasser, A.W.;
Applied Superconductivity, IEEE Transactions on, Volume: 5 Issue: 2, 16-21

Oct 1994
Page(s): 2330 -2333

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12 Dependence of critical current density on oxygen exposure in Nb-AlO_x-Nb tunnel junctions

Kleinsasser, A.W.; Miller, R.E.; Mallison, W.H.;
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13 Development of superconducting tunnel junctions with an aluminum-oxide insulation layer for X-ray detection

Sato, H.; Ikeda, T.; Kato, H.; Kawai, K.; Miyasaka, H.; Oku, T.; Ootani, W.; Otani, C.; Shimizu, H.M.; Watanabe, H.; Nakagawa, H.; Akoh, H.; Aoyagi, M.; Taino, T.; Inaba, K.; Kino, Y.;
Applied Superconductivity, IEEE Transactions on, Volume: 9 Issue: 2, Jun 1999
Page(s): 4475 -4478

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14 Ion beam deposition and oxidation of spin-dependent tunnel junctions

Cardoso, S.; Gehanno, V.; Ferreira, R.; Freitas, P.P.;

Magnetics, IEEE Transactions on , Volume:

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15 Magnetoresistance of $\text{Co}_{100-x}\text{Fe}_x/\text{Al-oxide}/\text{Co}_{100-x}\text{Fe}_x$ tunnel junctions

Nakashio, E.; Sugawara, J.; Onoe, S.; Kumagai, S.;

Magnetics, IEEE Transactions on , Volume:

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16 Study of magnetic tunnel junction read sensors

Ho, M.K.; Tsang, C.H.; Fontana, R.E., Jr.; Parkin, S.S.; Carey, K.J.; Tao Pan;

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17 A hybrid Nb/CMOS integration process for superconducting tunnel junction imaging arrays

Wong, A.; Xiaofan Meng; Van Duzer, T.;
Applied Superconductivity, IEEE
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18 Characteristics of Nb-based Josephson junctions at a temperature below 1 K

Ishibashi, K.; Takeno, K.; Oae, Y.; Sakae, T.; Matsumoto, Y.; Katase, A.; Takada, S.; Akoh, H.; Nakagawa, H.;
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25 Issue: 2, 21-25 Aug 1988
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19 All niobium nitride Josephson tunnel junctions with thermally oxidized magnesium barrier

Radparvar, M.; Yu-Jahnes, L.S.; Hunt, R.T.;
Applied Superconductivity, IEEE
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20 High efficiency a-Si/a-Si tandem solar cells

Shen, D.S.; Schropp, R.E.I.; Chatham, H.; Hollingsworth, R.E.; Xi, J.; Bhat, P.K.;
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21 Development of amorphous silicon based p-i-n solar cell in a superstrate structure with p-microcrystalline silicon as window layer

Rath, J.K.; van der Werf, C.H.M.; Rubinelli, F.A.; Schropp, R.E.I.;
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22 Single electron transistors (SETs) with Nb/Nb oxides system fabricated by atomic force microscope (AFM) nano-oxidation process

Shirakashi, J.; Ishii, M.; Matsumoto, K.; Miura, N.; Konagai, M.;
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*Yang, J.; Banerjee, A.; Glatfelter, T.;
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**24 A new nano-scale transistor using
metal/insulator/metal tunnel junction**

Fujimaru, K.; Sasajima, R.; Matsumura, H.;
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**25 Focused ion beam process for a
formation of metal/insulator/metal
double tunnel junctions**

*Nakayama, M.; Yanagisawa, J.; Wakaya, F.;
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Microprocesses and Nanotechnology
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Choquette, K.D.; Klem, J.F.; Fischer, A.J.; Blum, O.; Allerman, A.A.; Fritz, I.J.; Kurtz, S.R.; Breiland, W.G.; Sieg, R.; Geib, K.M.; Scott, J.W.; Naone, R.L.;

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27 Ion beam induced changes in the oxide composition of PbIn alloy tunnel junction electrodes

Hebard, A.; Eick, R.; Schwartz, G.;

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[\[Abstract\]](#) [\[PDF Full-Text \(424 KB\)\]](#) **IEEE JRN**

28 XPS and tunneling study of air-oxidized overlayer structures of Nb with thin Mg, Y and Er

Kwo, J.; Wertheim, G.; Gurvitch, M.; Buchanan, D.;

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29 A novel technique for preparation of tunnel junction barriers using electrochemical anodization

Simon, R.; Chaikin, P.; Wolf, S.;

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[\[Abstract\]](#) [\[PDF Full-Text \(208 KB\)\]](#) **IEEE JRN**

30 Low specific capacitance by ion-beam oxidation of Niobium-based Josephson tunnel junctions

Herwig, R.;

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22 Issue: 2 , Mar 1986
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**31 Tunnel junctions with Nb₃Ge base
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**32 Processing of all-NbN tunnel
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*Blaugher, R.; Przybysz, J.; Talvacchio, J.;
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**33 Electron trap states and low
frequency noise in tunnel junctions**

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34 An improved analytic model for the metal-insulator-semiconductor tunnel junction

Chu, K.M.; Pulfrey, D.L.;
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35 Optimization of YBCO surfaces of tunnel junctions

Gavalier, J.R.; Braginski, A.I.; Forrester, M.G.; Talvacchio, J.; Greggi, J.;
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36 Y-Ba-Cu-O/Nb Josephson tunnel junctions

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37 RF-sputter-deposited magnesium oxide films as high-quality adjustable tunnel barriers

Villegier, J.C.; Radparvar, M.; Yu, L.S.; Faris, S.M.;

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Dang, H.; Radparvar, M.;

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40 Electron tunneling into 1-2-3 HTSC thin films

Geerk, J.; Wang, R.-L.; Li, H.-C.; Linker, G.; Meyer, O.; Ratzel, F.; Smithey, R.; Keschtkar, H.;

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41 Fabrication process for Josephson computer ETL-JC1 using Nb tunnel junctions

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42 An integrated superconducting sub-mm wave receiver for linewidth measurements of Josephson flux-flow oscillators

Zhang, Y.M.; Winkler, D.;

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**43 Nb/AlN/Nb Josephson junctions
with high critical current density**

*Kleinsasser, A.W.; Mallison, W.H.; Miller,
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**44 Nonlithographic nano-wire arrays:
fabrication, physics, and device
applications**

*Routkevitch, D.; Tager, A.A.; Haruyama, J.;
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**45 Superconductor electronics,
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46 Study of DC plasma oxidized Al_2O_3 barriers in spin dependent tunneling junctions using high resolution transmission electron microscopy

Clark, T.E.; Mancoff, F.B.; Wang, S.X.; Clemens, B.M.; Sinclair, R.;
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47 Dependence of tunneling magnetoresistance on CoFe interfacial layer thickness in NiFe/ Al_2O_3 /NiFe tunnel junctions

Park, B.G.; Lee, T.D.;
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48 PLD growth of stoichiometric Fe_3O_4 thin films for spin tunneling devices

Kiyomura, T.; Gomi, M.; Maruo, Y.; Toyoshima, H.;
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50 Spectral features of substrate phonon events obtained by illuminating superconducting tunnel junctions with X-rays

Otani, C.; Ikeda, T.; Kato, H.; Kawai, K.; Miyasaka, H.; Oku, T.; Ootani, W.; Sato, H.; Shimizu, H.M.; Takizawa, Y.; Watanabe, H.; Nakagawa, H.; Akoh, H.; Aoyagi, M.; Taino, T.
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**120 Design and fabrication of
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121 Three-terminal silicon surface junction tunneling device for room temperature operation

Koga, J.; Toriumi, A.;
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122 Effects of interface oxidization in ferromagnetic tunnel junctions

Sato, M.; Kikuchi, H.; Kobayashi, K.;
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123 Microwave emission due to anisotropic quasiparticle injection into an $\text{ErBa}_2\text{Cu}_3\text{O}_y$ superconductor

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**124 Demonstrating a tunneling
magneto-resistive read head**
*Song, D.; Nowak, J.; Larson, R.; Kolbo, P.;
Chellew, R.;*
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*Born, D.; Wagner, T.; Krech, W.; Hubner,
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126 Capacitance as a probe of high angle grain boundary transport in oxide superconductors

Tarte, E.J.; McBrien, P.F.; Ransley, J.H.T.;

Hadfield, R.H.; Inglessi, E.; Booij, W.E.;

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**1 Low resistance spin-dependent
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*Sin, K.; Mao, M.; Chien, C.; Funada, S.;
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**2 Spin-valve-like properties and
annealing effect in ferromagnetic
tunnel junctions**

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*Ohashi, K.; Hayashi, K.; Nagahara, K.;
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**4 Demonstrating a tunneling
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*Song, D.; Nowak, J.; Larson, R.; Kolbo, P.;
Chellew, R.;*

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**5 Magnetoresistance of
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junctions**

*Nakashio, E.; Sugawara, J.; Onoe, S.;
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*Ho, M.K.; Tsang, C.H.; Fontana, R.E., Jr.;
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